

Mastering Ansible

Jenkins Ansible Configuration



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Exercise Steps

Scenario:

In this activity, participants will be establishing **SSH** connection between Controller Node and Worker Node using Jenkins user.

Walkthrough:

1. Verify Jenkins service status
2. Establishing communication between Controller Node and Worker Node using Jenkins user

1	<p>Follow the below steps to verify Ansible Installation.</p> <p>Switch to root user</p> <p>sudo su -</p> <p>systemctl status jenkins</p> <pre>[user1@ip-172-32-13-19 ~]\$ sudo su - Last login: Fri Jun 3 06:14:35 UTC 2022 on pts/0 [root@ip-172-32-13-19 ~]# systemctl status jenkins ● jenkins.service - Jenkins Continuous Integration Server Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; vendor preset: disabled) Active: active (running) since Fri 2022-06-03 06:25:07 UTC; 3h 54min ago Main PID: 1166 (java) Tasks: 38 Memory: 1.1G CGroup: /system.slice/jenkins.service └─1166 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java...</pre>
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1.1.1.1 Part 2 : Establishing communication between Controller Node and Worker Node using Jenkins user

Step 1	Switch to Jenkins user on Controller Node using below command su -s /bin/bash jenkins
Step 2	On Controller node, execute the below command to generate ssh key for establishing the ssh connection between controller and worker nodes – ssh-keygen

	<pre> bash-4.2\$ ssh-keygen Generating public/private rsa key pair. Enter file in which to save the key (/var/lib/jenkins/.ssh/id_rsa): /var/lib/jenkins/.ssh/id_rsa already exists. Overwrite (y/n)? y Enter passphrase (empty for no passphrase): Enter same passphrase again: Your identification has been saved in /var/lib/jenkins/.ssh/id_rsa. Your public key has been saved in /var/lib/jenkins/.ssh/id_rsa.pub. The key fingerprint is: SHA256:XimK0430ef8vFy/AP8S6/bP3tI6jWohvCNcBGsUzrLQ jenkins@ip-172-32-13-19.ap-south-1.compute.internal The key's randomart image is: +----[RSA 2048]-----+ +. o * . = + E . S.+ o +.++ + .o+.o. * o . .ooo...+.+.o .o .o++*+==*o +-----[SHA256]-----+ bash-4.2\$ </pre> <p>Execute the below command and copy the content of ~/.ssh/id_rsa.pub file</p> <p>cat ~/.ssh/id_rsa.pub</p>
<p>Step 3</p>	<p>On the Worker node execute the below command using root user and paste the content you have copied in the above step</p> <p>cat >> ~/.ssh/authorized_keys</p> <p>Right click on the command line and paste the content. Finally press ctrl + d to exit from cat line editor</p>
<p>Step 4</p>	<p>To confirm if worker node could connect from controller node from Jenkins user through SSH, execute the below command –</p> <p>ssh root@<ip-address-of-worker-node></p> <p>exit</p>
<p>Step 5</p>	<p>Execute the below command using Jenkins user to test if we can connect to worker nodes with ansible ad-hoc command –</p> <p>ansible -m ping target</p> <p>The output is as shown below –</p> <pre> bash-4.2\$ ansible -m ping target [WARNING]: log file at /var/log/ansible.log is not writeable and we cannot create it, aborting 172.32.5.219 SUCCESS => { "ansible_facts": { "discovered_interpreter_python": "/usr/bin/python" }, "changed": false, "ping": "pong" } bash-4.2\$ id uid=986(jenkins) gid=979(jenkins) groups=979(jenkins) context=system_u:system_r:unconfined_service_t:s0 bash-4.2\$ </pre>

*** End of Activity Jenkin Ansible Configuration ***

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